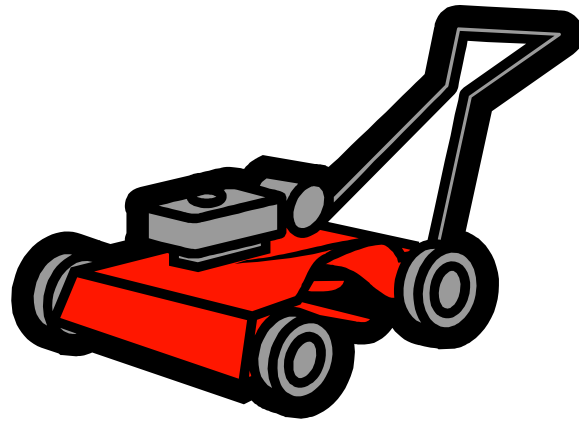


Non-Automotive Gasoline Engines Workgroup



Sandy Krietzman
Workgroup Leader
June 29, 2005

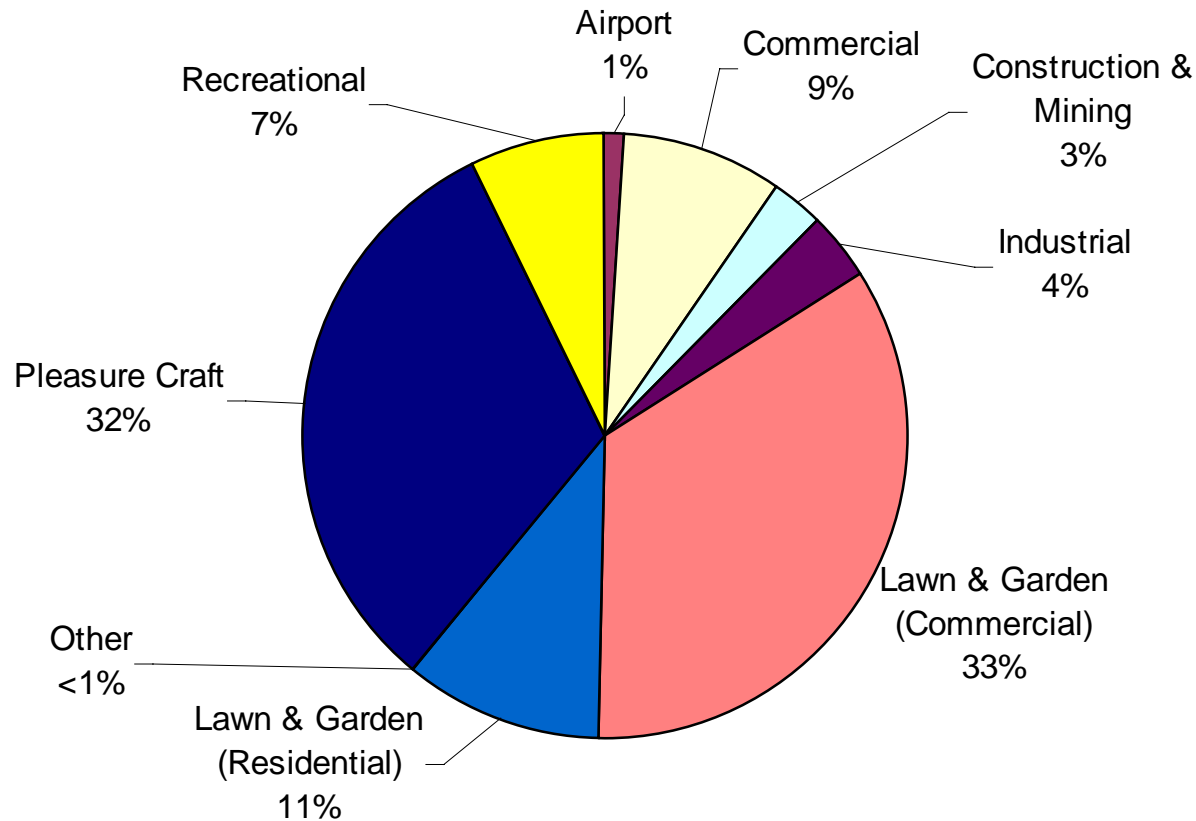
Workgroup Description

- Recommend emissions control measures for Non-Automotive Gasoline Engines
 - Mobile source category
 - Off-road equipment powered by spark-ignited two- and four-stroke engines.
 - Gasoline, Propane and Natural Gas fueled
 - Commercial, Agricultural, Industrial & Residential
 - Lawn care, Watercraft, Airport, Railroad, Construction, Mining equipment

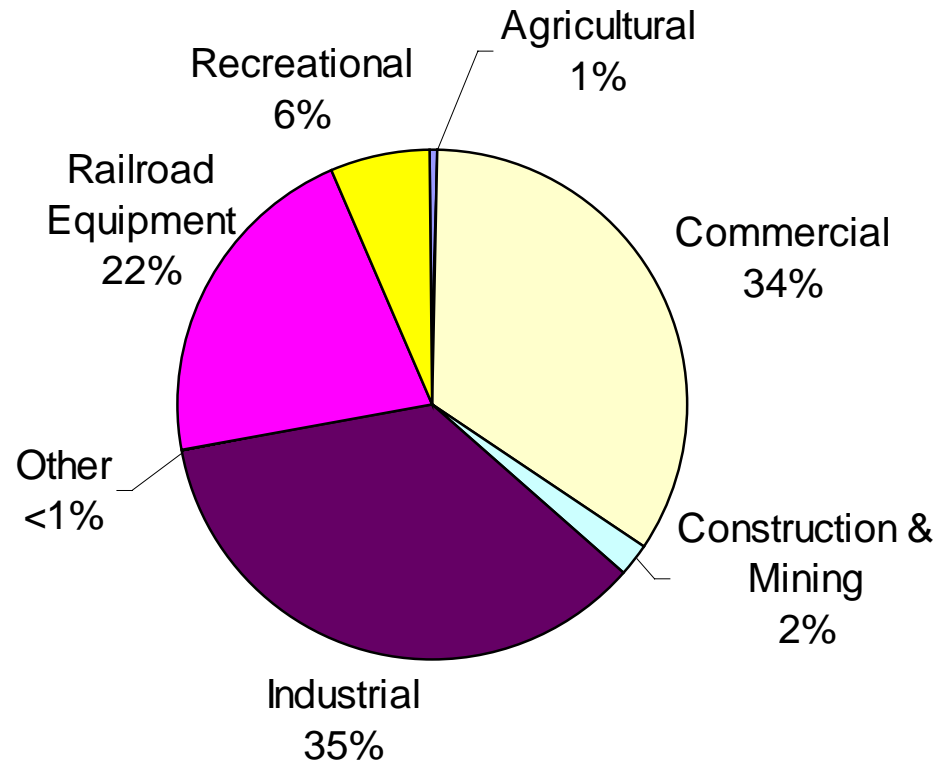
Why is New Jersey Interested in this Category?

- Off-road spark-ignited engines emit
 - 201 tons per summer day VOC / 15% of State
 - 232 tons per summer day NO_x / 5.4% of State
 - 2150 tons per year PM_{2.5} / 7.4% of State

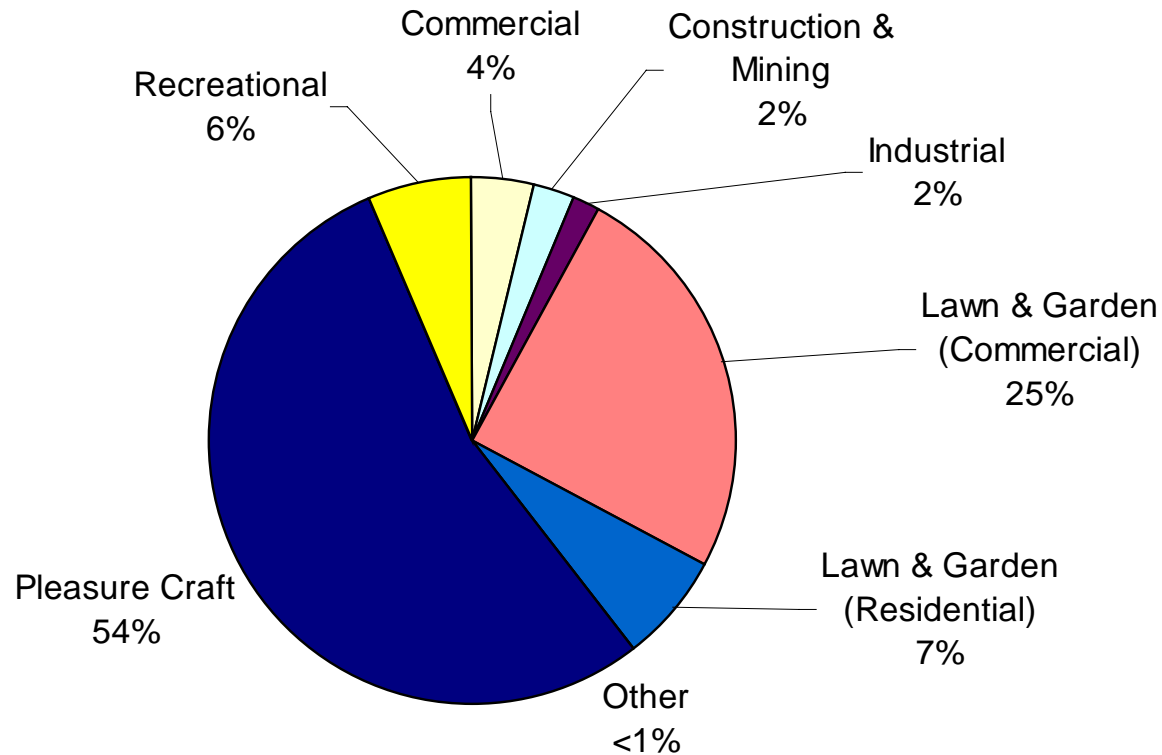
Off-Road Spark Ignited Engine Emissions (VOC tons/ summer day)



Off-Road Spark Ignited Engine Emissions (NOx tons/ summer day)



Off-Road Spark Ignited Engine Emissions (PM_{2.5} tons/ year)



Current and/or Planned New Jersey Controls for these Sources

- Low VOC - emitting portable fuel containers
- Federal off-road engine standards
 - Phase 2 Standards - (19 kilowatts or 25 horsepower)
 - Nonhandheld Applications - (includes lawn and garden tractors and lawnmowers) Standards will phase in between 2001 and 2007.
 - Handheld Applications - (includes leafblowers and chainsaws) Standards will phase in between 2002 and 2007.

What Other States Are Doing

- California off road engine emissions standards
- California is exploring a replacement program to emphasize electric equipment

Regional Efforts/Pending Legislation

- No regional efforts at this time
- Federal bill-Senate Appropriations Committee approved compromise language effecting future USEPA nonroad engine rulemakings.
 - Allows USEPA to continue drafting the small engine rule (< 50 hp).
 - Prevents USEPA from publishing until safety study is completed.
 - 6 month deadline to complete and publish the study.

Workgroup Charge

- Develop recommendations to reduce VOC, NO_x and PM emissions from off-road “spark-ignited” engines.

State Team Members

- Sandy Krietzman - Workgroup Leader, NJDEP
- Stella Ononiwu - Facilitator, NJDEP
- Tony Iavarone - NJDEP
- Rich Janiak - NJDEP
- Angela Skowronek - NJDEP
- Jim Arose - NJMVC